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16. Abstract  <p>The objective of this test is to determine if the Tilt-A-Way Vertical Pivot Gate is capable of arresting a 15,000 lb truck traveling at 50 mi/h according to Condition Designation M50 of <i>ASTM F2656-07</i>. This condition designation requires the barrier to withstand kinetic energy of 1,250,000 ft-lb.</p> <p>This report presents the construction details of the Tilt-A-Way Vertical Pivot Gate, details of the impact vehicle used in the test, details of the test performed, and the assessment of the test results.</p> <p><i>ASTM F2656-07</i> provides a range of vehicle test designations and penetration levels that allow agencies to select perimeter security devices that satisfy their specific facility needs. The amount of vehicle penetration of the device at the required impact velocity determines the dynamic penetration rating for each condition designation. The leading edge of the cargo bed dynamically penetrated 4.4 ft beyond the inside edge of the gate. According to <i>ASTM F2656-07</i>, the Ideal Manufacturing, Inc. Tilt-A-Way Vertical Pivot Gate meets Condition Designation/Penetration Rating M50/P2, which allows penetration of 3.31 to 23.0 ft.</p>					
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